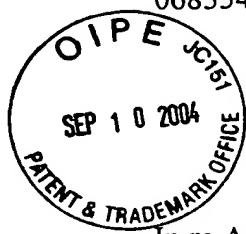


ATTORNEY DOCKET  
068354.1446

9/13/04

PATENT APPLICATION  
09/870,711

2124/1  
LFW



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Michael I. Catherwood  
Serial No.: 09/870,711  
Filing Date: June 1, 2001  
Group Art Unit: 2124  
Examiner: David H. Malzahn  
Title: ***Maximally Negative Signed Fractional Number Multiplication***

Mail Stop Amendment  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify that this Information Disclosure Statement is being deposited with the United States Postal Service as Express Mail EV351290755US addressed to: Mail Stop Amendment, Commissioner of Patents, Alexandria, VA 22313-1450, on the date shown below.

Angela Loding  
Angela Loding  
9-10-04  
Date

Dear Sir:

**INFORMATION DISCLOSURE STATEMENT**

Applicant respectfully requests, pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified application. Copies of the references are enclosed on the attached CD-Rom for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. §§1.97 (g) and (h), no representation is made that these references are material to the patentability of the present application.

09/13/2004 MBLANCO 00000017 09870711

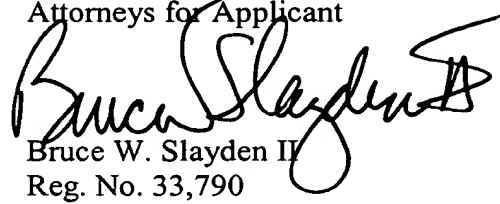
01 FC:1806

180.00 DP

Applicant has enclosed a check in the amount of \$180.00, however, the Commissioner is hereby authorized to charge any additional fees or credit any overpayments to Deposit Account No. 50-2148 of Baker Botts L.L.P.

Respectfully submitted,

BAKER BOTTS L.L.P.  
Attorneys for Applicant

  
Bruce W. Slayden II  
Reg. No. 33,790

Date:

9/10/2004

Correspondence Address:

Customer Number **31625**

512.322.2606

512.322.8306 (Fax)

PTO-1449 SEP 10 2004 Information Disclosure Citation in an Application	Application No.	Applicant(s)	
	09/870,711	Catherwood	
	Docket Number	Group Art Unit	Filing Date
	068354.1446	2124	June 1, 2001

## U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.	3771146	11/6/73	Cotton et al.	710	260	1/22/73
B.	3781810	12/25/73	Downing	340	172.5	4/26/72
C.	3886524	5/27/75	Appelt	710	110	10/18/73
D.	4025771	5/24/77	Lynch et al.	708	521	3/25/74
E.	4074353	2/14/78	Woods et al.	710	264	3/24/76
F.	4090250	5/16/78	Carlson et al.	712	234	9/30/76
G.	4323981	4/6/82	Nakamura	364	749	10/23/78
H.	4379338	4/5/83	Nishitani et al.	708	552	11/21/80
I.	4398244	8/9/83	Chu et al.	364	200	5/7/80
J.	4408274	10/4/83	Wheatley et al.	364	200	9/29/80
K.	4451885	5/29/84	Gerson et al.	708	200	3/1/82
L.	4472788	9/18/84	Yamazaki	364	900	8/27/81
M.	4481576	11/6/84	Bicknell	364	200	3/19/82
N.	4488252	12/11/84	Vassar	364	748	2/22/82
O.	4511990	4/16/85	Hagiwara et al.	364	748	10/15/81

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
P.	01037424 A	2/1989	JP (w/abstract)	H03M	001/82		X
Q.	0 554 917 A2	8/11/93	EP	G06F	9/26	X	
R.	96/11443	4/18/96	WO	G06F	15/78	X	
S.	0 855 643 A1	07/29/98	EP	G06F	9/30	X	
T.	0 992 888	12/04/00	EP	G06F	9/32	X	
U.	0 992 889	12/14/00	EP	G06F	9/32	X	

## NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)

V.	Moon B I et al.: "A 32-bit RISC Microprocessor with DSP Functionality: Rapid Prototyping" IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Institute of Electronics Information and Comm. Eng. Tokyo, JP, vol. E84-A no. 5, pages 1339-1347, XP001060025 ISSN: 0916-8508	5/2001
W.	Turley J: "Balancing Conflicting Requirements When Mixing RISC, DSPs" Computer Design, Pennwell Publ. Littleton, Massachusetts, IS, vol. 37, no. 10, pages 46, 48, 50-53, XP000860706 ISSN:0010-4566	10/1998
X.	Levy M: "Microprocessor and DSP Technologies Unite for Embedded Applications" EDN Electrical Design News, Cahners Publishing Co., Newtown Massachusetts, US, no. Europe, pages 73-74, 76, 78-80, XP000779113 ISSN: 0012-7515	3/2/1998

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



PTO-1449 <b>Information Disclosure Citation in an Application</b>	Application No. 09/870,711	Applicant(s) Catherwood	
	Docket Number 068354.1446	Group Art Unit 2124	Filing Date June 1, 2001

### U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	4556938	12/3/85	Parker et al.	364	200	2/22/82
	B.	4626988	12/2/86	George	364	200	3/7/83
	C.	4730248	3/8/88	Watanabe et al.	364	200	8/30/84
	D.	4742479	5/3/88	Kloker et al.	364	746	3/25/85
	E.	4768149	8/30/88	Konopik et al.	364	200	8/29/85
	F.	4779191	10/18/88	Greenblatt	711	2	4/12/85
	G.	4782457	11/1/88	Cline	364	715.04	8/18/86
	H.	4800524	1/24/89	Roesgen	364	900	12/2/87
	I.	4807172	2/21/89	Nukiyama	364	715.08	2/17/87
	J.	4829420	5/9/89	Stahle	364	200	6/29/87
	K.	4829460	5/9/89	Ito	364	715.08	10/14/87
	L.	4839846	6/13/89	Hirose et al.	364	748	3/12/86
	M.	4841468	6/20/89	Miller et al.	708	625	3/20/87
	N.	4872128	10/3/89	Shimizu	364	715.08	2/17/88
	O.	4882701	11/21/89	Ishii	364	900	9/23/88
	P.	4926371	5/15/90	Vassiliadis et al.	708	628	12/28/88
	Q.	4941120	7/10/90	Brown et al.	364	748	4/17/89

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	R.							
	S.							

### NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)

	T.	Intel, Pentium Processor Family Developer's Manual, Volume 3: Architecture and Programming Manual, , Pages 3-1, 3-2, 3-15, 14-1 to 14-30, 18-7, and 25-289 to 25-292	1995
	U.	Intel, Embedded Intel486 Processor Family Developer's Manual, pgs. 2-2, 3-17, 3-37, 4-5, 4-6, 10-1 to 10-12, 12-1 to 12-10	10/1997
	V.	Moore, M "Z80 Family Interrupt Structure". Barleywood (online), retrieved from the internet <URL: http://www.gaby.de/z80/1653.htm>	1997
	W.	PCT Search Report based on PCT/US02/16706, 6 pages	Mailed 9/27/02
	X.	PCT Search Report based on PCT/US02/16705, 7 pages	Mailed 9/9/02
	Y.	PCT Search Report based on PCT/US02/16921, 4 pages	Mailed 10/18/02

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	Docket Number	Group Art Unit	Filing Date
	068354.1446	2124	June 1, 2001

## U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.	4943940	7/24/90	New	364	748	9/27/84
B.	4959776	9/25/90	Deerfield et al.	364	200	12/5/88
C.	4977533	12/11/90	Miyabayashi et al.	364	726	10/10/89
D.	4984213	1/8/91	Abdoo et al	365	230.03	2/21/89
E.	5007020	4/9/91	Inskeep	364	900	5/7/90
F.	5012441	4/30/91	Retter	364	900	11/24/86
G.	5032986	7/16/91	Pathak et al.	364	200	9/22/89
H.	5034887	7/23/91	Yasui et al.	364	200	7/27/90
I.	5038310	8/6/91	Akagiri et al.	364	715.04	4/19/90
J.	5040178	8/13/91	Lindsay et al.	371	21.5	5/12/89
K.	5056004	10/8/91	Ohde et al.	264	200	10/14/88
L.	5099445	3/24/92	Studor et al.	364	715.08	12/26/89
M.	5101484	3/31/92	Kohn	395	375	2/14/89
N.	5117498	5/26/92	Miller et al.	395	775	9/19/90
O.	5121431	6/9/92	Wiener	713	174	7/2/90
P.	5122981	6/16/92	Taniguchi	364	748	3/23/89
Q.	5155823	10/13/92	Tsue	395	400	4/17/89
R.	5177373	1/5/93	Nakamura	307	265	9/27/91
S.	5197023	3/23/93	Nakayama	364	748	10/31/91
T.	5197140	3/23/93	Balmer	395	400	11/17/89
U.	5206940	4/27/93	Murakami et al.	395	400	8/27/91
V.	5212662	5/18/93	Cocanougher et al.	364	748	9/11/90
W.	5239654	8/24/93	Ing-Simmons et al.	395	800	11/17/89
X.	5276634	1/4/94	Suzuki et al.	364	748	8/20/91

## FOREIGN PATENT DOCUMENTS

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<b>Information Disclosure Citation in an Application</b>	068354.1446	2124	June 1, 2001

## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	5282153	1/25/94	Bartkowiak et al.	364	716	4/6/93
	B.	5327543	7/5/94	Miura et al.	395	375	4/23/90
	C.	5327566	7/5/94	Forsyth	395	775	7/12/91
	D.	5375080	12/20/94	Davies	364	736.5	12/18/92
	E.	5379240	1/3/95	Byrne	364	715.08	3/8/93
	F.	5392435	2/21/95	Masui et al.	395	725	9/29/93
	G.	5418976	5/23/95	Iida	395	800	12/21/92
	H.	5422805	6/6/95	McIntyre et al.	708	625	10/21/92
	I.	5432943	7/11/95	Mitsubishi	395	725	4/19/93
	J.	5448703	9/5/95	Amini et al.	395	290	5/28/93
	K.	5448706	9/5/95	Fleming et al.	395	421.07	5/13/92
	L.	5463749	10/31/95	Wertheizer et al.	395	437	1/13/93
	M.	5469377	11/21/95	Amano	364	748	8/18/93
	N.	5471600	11/28/95	Nakamoto	395	405	2/22/95
	O.	5497340	3/5/96	Uramoto et al.	364	745	6/14/93
	P.	5499380	3/12/96	Iwata et al.	395	800	5/18/04
	Q.	5504916	4/2/96	Murakami et al.	395	800	9/28/93
	R.	5517436	5/14/96	Andreas et al.	364	736	6/7/94
	S.	5525874	6/11/96	Mallarapu et al.	318	254	1/30/95
	T.	5548544	8/20/96	Matheny et al.	364	745	10/14/94
	U.	5561619	10/1/96	Watanabe et al.	364	736.5	9/20/94
	V.	5564028	10/8/96	Swoboda et al.	395	375	1/11/94
	W.	5568380	10/22/96	Broadnax et al.	364	184	8/30/93

## FOREIGN PATENT DOCUMENTS

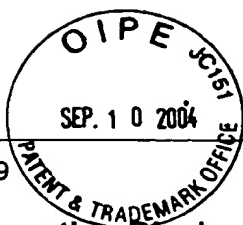
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### U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	5568412	10/22/96	Han et al.	364	748	11/29/94
	B.	5596760	1/21/97	Ueda	395	588	12/9/92
	C.	5600813	2/4/97	Nakagawa et al.	395	421.07	2/9/93
	D.	5611061	3/11/97	Yasuda	395	591	11/24/93
	E.	5619711	4/8/97	Anderson	395	800	6/29/94
	F.	5638524	6/10/97	Kiuchi et al.	395	375	5/17/95
	G.	5642516	6/24/97	Hedayat et al.	395	733	10/14/94
	H.	5649146	7/15/97	Riou	395	421.07	3/30/95
	I.	5651121	7/22/97	Davies	395	376	12/18/92
	J.	5657484	8/12/97	Scarrá	395	561	12/27/94
	K.	5659700	8/19/97	Chen et al.	395	421.07	2/14/95
	L.	5682339	10/28/97	Tam	364	715.08	5/26/95
	M.	5689693	11/18/97	White	395	565	4/26/94
	N.	5694350	12/2/97	Wolrich et al.	364	788	6/30/95
	O.	5696711	12/9/97	Makineni	364	748.03	12/22/95
	P.	5706460	1/6/98	Craig et al.	395	380	3/19/91
	Q.	5706466	1/6/98	Dockser	395	452	1/13/95
	R.	5715470	2/3/98	Asano et al.	395	800	9/27/93
	S.	5737570	4/7/98	Koch	395	872	4/28/97
	T.	5740095	4/14/98	Parant	364	760	7/12/95
	U.	5740419	4/14/98	Potter	395	588	7/22/96
	V.	5740451	4/14/98	Muraki et al.	395	733	10/28/96
	W.	5748516	5/5/98	Goddard et al.	364	748.03	9/26/95

### FOREIGN PATENT DOCUMENTS

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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	5748970	5/5/98	Miyaji et al.	395	733	4/30/96
	B.	5764555	6/9/98	McPherson et al.	364	748.03	3/13/96
	C.	5765216	6/9/98	Weng et al.	711	214	6/17/96
	D.	5765218	6/9/98	Ozawa et al.	711	219	3/10/95
	E.	5774711	6/30/98	Henry et al.	395	591	7/26/96
	F.	5778416	7/7/98	Harrison et al.	711	5	4/3/97
	G.	5790443	8/4/98	Shen et al.	364	746	3/19/96
	H.	5808926	9/15/98	Gorshtein et al.	364	748.11	9/24/96
	I.	5812439	9/22/98	Hansen	364	748.03	10/10/95
	J.	5812868	9/22/98	Moyer et al.	395	800.23	9/16/96
	K.	5825730	10/20/98	Nishida et al.	369	44.32	3/8/96
	L.	5826072	10/20/98	Knapp et al.	395	567	11/13/95
	M.	5826096	10/20/98	Baxter	395	800.24	5/19/95
	N.	5828875	10/27/98	Halvarsson et al.	395	588	5/29/97
	O.	5862065	1/19/99	Muthusamy	364	736.5	2/13/97
	P.	5867726	2/2/99	Ohsuga et al.	395	800.32	4/10/96
	Q.	5875342	2/23/99	Temple	395	733	6/3/97
	R.	5880984	3/9/99	Burchfiel et al.	364	748.07	1/13/97
	S.	5892697	4/6/99	Brakefield	364	748.02	12/19/95
	T.	5892699	4/6/99	Duncan et al.	364	760.4	9/16/97
	U.	5894428	4/13/99	Harada	364	724.03	7/28/97
	V.	5900683	5/4/99	Rinehart et al.	307	126	12/23/97
	W.	5909385	6/1/99	Nishiyama et al.	364	760.03	4/1/97

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	A.	5917741	6/29/99	Ng	364	748.03	8/29/96
	B.	5918252	6/29/99	Chen et al.	711	217	11/25/96
	C.	5930159	7/27/99	Wong	364	745.01	10/17/96
	D.	5930503	7/27/99	Drees	395	651	12/29/95
	E.	5936870	8/10/99	Im, Jin Hyeock	364	745.03	8/15/97
	F.	5937199	8/10/99	Temple	395	335	6/3/97
	G.	5938759	8/17/99	Kamijo	712	209	12/19/97
	H.	5941940	8/24/99	Prasad et al.	708	523	6/30/97
	I.	5943249	8/24/99	Handlogten	364	748.02	4/25/97
	J.	5944816	8/31/99	Dutton et al.	712	215	5/17/96
	K.	5951627	9/14/99	Kiamilev et al.	708	404	11/14/96
	L.	5951679	9/14/99	Anderson, et al.	712	241	10/31/97
	M.	5978825	11/2/99	Divine et al.	708	525	11/14/97
	N.	5983333	11/9/99	Kolagotia et al.	711	219	8/27/97
	O.	5991787	11/23/99	Abel et al.	708	400	12/31/97
	P.	5991868	11/23/99	Kamiyama et al.	712	32	5/19/94
	Q.	5996067	11/30/99	White	712	224	10/28/97
	R.	6009454	12/28/99	Dummernuth	709	108	11/10/97
	S.	6014723	1/11/00	Tremblay et al.	711	1	1/23/97
	T.	6018757	1/25/00	Wong	708	525	8/8/96
	U.	6026489	2/15/00	Wachi et al.	712	241	4/26/95
	V.	6044392	3/28/00	Anderson et al.	708	551	8/4/97
	W.	6044434	3/28/00	Oliver	711	110	9/24/97

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A.	6049858	4/11/00	Kolagotia et al.	711	217	8/27/97
B.	6058409	5/2/00	Kozaki et al.	708	409	8/5/97
C.	6058410	5/2/00	Sharangpani	708	551	12/2/96
D.	6058464	5/2/00	Taylor	711	217	7/9/96
E.	6061711	5/9/00	Song et al.	709	108	8/19/96
F.	6061780	5/9/00	Shippy et al.	712	204	1/23/98
G.	6061783	5/9/00	Harriman	712	224	11/13/96
H.	6076154	6/13/00	Van Eijndhoven et al	712	24	1/16/98
I.	6084880	7/4/00	Bailey et al.	370	395	6/30/97
J.	6101521	8/8/00	Kosiec	708	550	3/25/98
K.	6101599	8/8/00	Wright et al.	712	228	6/29/98
L.	6115732	9/5/00	Oberman et al.	708	625	5/8/98
M.	6128728	10/3/00	Dowling	712	228	12/12/97
N.	6134574	10/17/00	Oberman et al.	708	551	5/8/98
O.	6144980	11/7/00	Oberman	708	627	1/28/98
P.	6145049	11/7/00	Wong	710	267	12/29/97
Q.	6181151	1/30/01	Wasson	324	765	10/28/98
R.	6205467	3/20/01	Lambrech et al.	709	108	11/14/95
S.	6209086	3/27/01	Chi et al.	712	244	11/10/98
T.	6243786	6/5/01	Huang et al.	710	262	12/23/98
U.	6243804	6/5/01	Cheng	712	228	7/22/98
V.	6260162	7/10/01	Typaldos et al.	714	55	10/31/98
W.	6292866	9/18/01	Zaiki et al.	710	264	3/30/99

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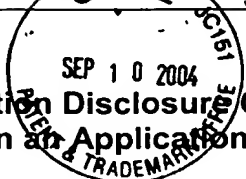
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
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PTO-1449  <b>Information Disclosure Citation in an Application</b>	Application No.	Applicant(s)	
	09/870,711	Catherwood	
	Docket Number	Group Art Unit	Filing Date
	068354.1446	2124	June 1, 2001

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	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.	6295574	9/25/01	MacDonald	710	261	1/20/00
B.	6315200	11/13/01	Silverbrook et al.	235	454	7/10/98
C.	6356970	3/12/02	Killian et al.	710	269	5/28/99
D.	6377619	4/23/02	Denk et al.	375	232	9/26/97
E.	6397318	5/28/02	Peh	711	220	4/2/98
F.	6412081	6/25/02	Koscal et al.	714	34	1/15/99
G.	6487654	11/26/02	Dowling	712	244	12/12/01
H.	2002/0194466	12/19/02	Catherwood et al.	712	241	6/1/01
I.	6523108	2/18/03	James et al.	712	224	11/23/99
J.	6564238	5/13/03	Kim et al.	708	513	2/2/00
K.	2003/0093656	5/15/03	Masse et al.	712	241	10/1/99
L.	6633970	10/14/03	Clift et al.	712	217	12/28/99
M.	6658578	12/2/03	Laurenti et al.	713	324	10/1/99
N.	6681280	1/20/04	Miyake et al.	710	261	10/4/00
O.	6763478	7/13/04	Vinh X. Bui	713	600	10/24/00
P.	6751742	6/15/04	Duhault et al.	713	323	8/31/99
Q.	6202163	3/13/01	Gabzdyl et al.	713	324	3/10/98
R.	5815693	9/29/98	McDermott et al.	713	501	12/15/95
S.	5778237	7/7/98	Yamamoto et al.	713	322	12/14/95
T.	4615005	9/30/86	Maejima et al.	713	601	7/20/84
U.						
V.						
W.						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
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